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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/733,424	12/10/2003	Makoto Oikawa	1232-5227	2119
27123 MORGAN & I	7590 02/23/2007 FINNEGAN, L.L.P.		EXAMINER	
3 WORLD FIN	NANCIAL CENTER		KHAN, USMAN A	
NEW YORK, NY 10281-2101			ART UNIT	PAPER NUMBER
			2622	
SHORTENED STATUTOR	RY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MC	NTHS	02/23/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, PROM THE MAILING DATE OF THIS COMMUNICATION.  Estensions for time may be available under the provision of 37 CPR 1.18(a), no event, howers, may a reply the limely filed  If NO prinds for reply is excelled above, the maximum statistory sprinds will apply and will expire 3X (5) MONTHS from the mailing date of this communication of the provision of the communication of the communicat		Application No.	Applicant(s)				
Usman Khan  2622  Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE of THIS COMMUNICATION.  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  If NO period for reply is specified above, the maximum statioture, period will apply and will expire story the period for reply is specified above, the maximum statioture period will apply and will expire SX (8) MONTHS from the mailing date of this communication.  If NO period for reply is specified above, the maximum statioture period will apply and will expire SX (8) MONTHS from the mailing date of this communication.  If NO period for reply is specified above, the maximum statioture period will apply and will expire SX (8) MONTHS from the mailing date of this communication.  If NO period for reply is specified above, the maximum statioture period will apply and will expire SX (8) MONTHS from the mailing date of this communication, were fill many from the period than the period of the communication, were fill many from the period of the communication, were fill many from the period of the communication, were fill many from the period of the communication.  Status  I) □ Responsive to communication(s) filled on 10 December 2003 and 24 May 2004.  2a) □ This action is FINAL.  2b) □ This action is non-final.  3) □ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Expire Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) □ Claim(s) □ All Sare pending in the application.  4a) □ Claim(s) □ All Sare allowed.  5b) □ Claim(s) □ All Sare allowed.  5c) □ Claim(s) □ All Sare allowed.  6c) □ Claim(s) □ All Sare allowed.  7c)		10/733,424	OIKAWA, MAKOTO				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address — Period for Repty  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  Estentions of time may be a validate under the provisions of 37 CRT. 13(6), in no event, however, may alwy be timely filed.  If NO period for reply is appetited above, the maximum statistical period of may be a public with the time time and the provision of 37 CRT. 13(6), in no event, however, may a large be timely filed.  If NO period for reply is appetited above, the maximum statistical period of may be a public with the state of the communication.  If NO period for reply is appetited before the reply with publication and period of the specifical observed by the Ottos Letter than these merities after the making date of this communication, even if timely filed, may no drose any search period to the communication, even if timely filed, may no drose any search period to the communication, even if timely filed, may no drose any search period to the communication, even if timely filed, may no drose any search period to the communication, even if timely filed, may no drose any search period to the communication.  Status  1) □ Responsive to communication(s) filed on 10 December 2003 and 24 May 2004.  2a) □ This action is FINAL.  2b) □ This action is filed in the application of allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Exparte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) □ Claim(s) □ A silvare pending in the application.  4a) □ Of the above claim(s) □ is/are allowed.  5b) □ Claim(s) □ A silvare pending in the application.  4a) □ Claim(s) □ A silvare available to the silvare and the silva	Office Action Summary	Examiner	Art Unit				
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WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  Estatacions of time may be available under the provisions of 37 cFR 1.15(a), hin evert, however, may a reply be finely filed after SX (6) MONTHS from the mailing date of this communication of 10 cpt and 10 cpt of 10 cp							
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#### **DETAILED ACTION**

## **Priority**

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

## Specification

The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

# Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claim(s) 3 is/are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter as follows. Claim 3 defines a program embodying functional descriptive material. However, the claim does not define a computer-readable medium or memory and is thus non-statutory for that reason (i.e., "When functional descriptive material is recorded on some computer-readable medium it becomes structurally and functionally interrelated to the medium and will be statutory in most cases since use of technology permits the function of the descriptive material to be realized" – Guidelines Annex IV). That is, the scope of the presently claimed

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program can range from paper on which the program is written, to a program simply contemplated and memorized by a person.

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States:

Claims 1 - 2 are rejected under 35 U.S.C. 102(b) as being anticipated by Sasakura (US patent No. 5,995,144).

Regarding claim 1, Sasakura teaches that it is well known in the art to have a focus detection device comprising: a solid-state image sensing device including a first photoelectric conversion element array which photoelectrically converts a first light beam passing through a first area of an exit pupil of a photographing optical system (figure 2 and column 1 liens 26 et seq.), and a second photoelectric conversion element array which photoelectrically converts a second light beam passing through a second area of the exit pupil which is different from the first area (figure 2 and column 1 liens 26 et seq.); and a computing device which detects a focus state of the photographing optical system by computing a correlation between a first image signal which is an image signal from the first photoelectric conversion element array and a second image signal (Figure 4; column 2 lines 28 et seq.) which is an image signal from the second photoelectric conversion element array in accordance with a position of a focus

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detection area in an image sensing frame on the basis of a ratio between a shift amount of a focus detection opening pupil (figures 3 and 4; column 2 lines 28 et seq.), formed when limitation is imposed by an exit window of the photographing optical system, with respect to an optical axis (it is inherent that the light inputted will be limited by the pupil), and a width of the focus detection opening pupil (it is inherent that the shifted light will be limited by the pupil).

Regarding claim 2, Sasakura teaches that it is well known in the art to have a focus detection method wherein a first light beam passing through a first area of an exit pupil of a photographing optical system is photoelectrically converted by a first photoelectric conversion element array (figure 2 and column 1 liens 26 et seq.), a second light beam passing through a second area of the exit pupil which is different from the first area is photoelectrically converted by a second photoelectric conversion element array (figure 2 and column 1 liens 26 et seq.), and a focus state of the photographing optical system is detected by computing a correlation between a first image signal which is an image signal from the first photoelectric conversion element array and a second image signal which is an image signal from the second photoelectric conversion element array (Figure 4; column 2 lines 28 et seq.) in accordance with a position of a focus detection area in an image sensing frame on the basis of a ratio between a shift amount of a focus detection opening pupil (figures 3 and 4; column 2 lines 28 et seq.), formed when limitation is imposed by an exit window of the photographing optical system, with respect to an optical axis (it is inherent that the light Art Unit: 2622

inputted will be limited by the pupil), and a width of the focus detection opening pupil (it is inherent that the shifted light will be limited by the pupil).

# Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 3 - 4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sasakura (US patent No. 5,995,144) in further view of Tokunaga (US patent No. 7,102,675).

Regarding claim 3, as mentioned above in the discussion of claim 2 Sasakura teaches all of the limitations of the parent claim.

However, Sasakura fails to teach a program causing a computer to execute a focus detection method. Tokunaga, on the other hand teaches a program causing a computer to execute a focus detection method.

More specifically, Tokunaga teaches a program causing a computer to execute a focus detection method (column 8 lines 1 et seq.).

Therefore, one of ordinary skill in the art at the time the invention was made would have been motivated to incorporate the teachings of Tokunaga with the teachings

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of Sasakura to store the program on the required device and reduce the dependency on other devices and to reduce the overall cost of the system.

Regarding **claim 4**, as mentioned above in the discussion of claim 3 Sasakura in further view of Tokunaga teaches all of the limitations of the parent claim. Additionally, Tokunaga teaches a storage medium computer-readably storing a program (column 8 lines 1 *et seq.*).

#### Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Nagahata et al. (US patent No. 5,825,016) teaches a focus detection device that correlates two separate sets of images from the imager.

Ishida et al. (US patent No. 5,202,555) teaches a focus detection device that correlates two separate sets of images from the imager.

Eguchi et al. (US patent No. 4,523,829) teaches a focus detection device that correlates two separate sets of images from the imager.

Tsunekawa et al. (US patent No. 4,647,174) teaches a focus detection device that correlates two separate sets of images from the imager.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Usman Khan whose telephone number is (571) 270-

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1131. The examiner can normally be reached on Mon-Thru 6:45-4:15; Fri 6:45-3:15 or

Alt. Fri off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, David Ometz can be reached on (571) 272-7593. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Usman Khan

02/08/07

Patent Examiner

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LINYE PRIMARY PATENT EXAMINER

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